

# Executive Summary Report

## SMOG CHECK Statewide

November 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	789,846	92,698	11.74%
Total	903,050	118,923	13.17%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	685,182	86.75%	104,664	13.25%
Total	768,610	85.11%	134,440	14.89%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	437,725	86.52%	68,191	13.48%
Total	495,882	85.39%	84,868	14.61%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	10,140	1.28%
All Emissions	44,753	5.67%
All Visual	11,388	1.44%
All Functional	58,532	7.41%
OBDII	40,477	5.12%
Overall	92,698	11.74%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	280,495	253,879
Directed Vehicles	225,421	183,846
Total	505,916	437,725

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	46,802	40,295
Directed Vehicles	18,986	14,318
Total	65,788	54,613

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,521	286	534	31	0	4,372
Test Only	2,594	47	27	1	0	2,669
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	489	28	47	75	0	639
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	1	0	0	0	0	1
Total	6,922	372	759	110	0	8,163

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	628,128	75,994	12.10%	8,061	1.28%
Partially Enhanced	40,312	5,523	13.70%	615	1.53%
Basic	72,806	6,841	9.40%	845	1.16%
Change of Ownership	5,236	679	12.97%	153	2.92%
No Program	6	1	16.67%	0	0.00%
Unknown Program	43,358	3,660	8.44%	466	1.07%
Total Program Area	789,846	92,698	11.74%	10,140	1.28%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	505,916	65,854	13.02%	7,345	1.45%
Regular	210,626	16,342	7.76%	1,602	0.76%
Basic Area Dealer	4,821	167	3.46%	13	0.27%
Gold Shield in Enhanced Area	50,451	8,066	15.99%	866	1.72%
Gold Shield in Basic Area	9,674	1,209	12.50%	158	1.63%
Gold Shield in COO Area	5,663	677	11.95%	116	2.05%
Business Fleet	19	2	10.53%	0	0.00%
Permanent Fleet Registered	32	2	6.25%	0	0.00%
Referee	409	194	47.43%	16	3.91%
Government Fleet	2,235	185	8.28%	24	1.07%
Total	789,846	92,698	11.74%	10,140	1.28%

**10. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	695	179	25.76%	19.28%	8.92%	12.52%	7.48%	0.00%
MY-1977	1,021	301	29.48%	20.76%	9.40%	15.96%	8.13%	0.00%
MY-1978	1,200	328	27.33%	19.25%	7.75%	15.42%	7.83%	0.00%
MY-1979	1,385	405	29.24%	21.37%	8.81%	15.96%	7.22%	0.00%
MY-1980	860	237	27.56%	18.37%	8.84%	15.12%	9.30%	0.00%
MY-1981	859	247	28.75%	20.61%	7.45%	13.50%	7.10%	0.00%
MY-1982	1,157	353	30.51%	23.85%	10.20%	13.40%	7.95%	0.00%
MY-1983	1,338	413	30.87%	23.92%	8.00%	14.28%	8.15%	0.00%
MY-1984	2,625	821	31.28%	25.37%	10.10%	13.10%	7.39%	0.00%
MY-1985	3,458	1,063	30.74%	25.19%	8.82%	14.31%	5.87%	0.00%
MY-1986	4,835	1,364	28.21%	21.96%	7.74%	13.24%	5.98%	0.00%
MY-1987	6,125	1,841	30.06%	24.24%	7.82%	12.91%	5.31%	0.00%
MY-1988	6,847	1,971	28.79%	23.05%	7.10%	12.22%	4.78%	0.00%
MY-1989	9,869	2,655	26.90%	20.62%	6.05%	12.61%	4.34%	0.00%
MY-1990	11,898	3,112	26.16%	20.42%	5.30%	11.48%	3.96%	0.00%
MY-1991	15,105	3,843	25.44%	19.93%	5.21%	10.83%	3.30%	0.00%
MY-1992	14,347	3,490	24.33%	19.16%	4.77%	9.77%	3.18%	0.00%
MY-1993	18,883	4,925	26.08%	20.91%	4.17%	10.07%	3.14%	0.00%
MY-1994	22,304	5,226	23.43%	18.02%	3.16%	9.23%	2.98%	0.00%
MY-1995	32,147	6,948	21.61%	16.54%	2.74%	7.92%	2.94%	0.00%
MY-1996	24,168	4,634	19.17%	9.57%	1.56%	12.00%	2.22%	10.84%
MY-1997	41,622	6,588	15.83%	6.78%	1.01%	10.50%	1.69%	9.69%
MY-1998	35,747	4,970	13.90%	5.42%	1.07%	9.74%	1.56%	9.16%
MY-1999	56,307	5,792	10.29%	3.19%	0.53%	7.69%	1.20%	7.27%
MY-2000	46,430	4,578	9.86%	2.56%	0.52%	7.77%	1.07%	7.50%
MY-2001	82,705	8,891	10.75%	1.48%	0.29%	9.63%	0.87%	9.49%
MY-2002	44,008	3,613	8.21%	1.38%	0.26%	7.17%	0.74%	7.09%
MY-2003	92,099	6,340	6.88%	0.89%	0.21%	6.09%	0.64%	6.00%
MY-2004	39,747	1,873	4.71%	0.68%	0.10%	4.14%	0.41%	4.05%
MY-2005	99,804	4,114	4.12%	0.41%	0.09%	3.63%	0.39%	3.58%
MY-2006	32,204	880	2.73%	0.55%	0.05%	2.26%	0.34%	2.21%
MY-2007	15,100	370	2.45%	0.58%	0.05%	2.12%	0.18%	2.08%
MY-2008	7,942	149	1.88%	1.15%	0.04%	1.55%	0.24%	1.49%
MY-2009	3,842	69	1.80%	0.52%	0.03%	1.59%	0.13%	1.51%
MY-2010	6,501	63	0.97%	0.22%	0.00%	0.86%	0.08%	0.83%
MY-2011	4,162	41	0.99%	0.12%	0.02%	0.86%	0.05%	0.74%
MY-2012	499	11	2.20%	0.20%	0.00%	2.20%	0.00%	2.20%
All Model Years	789,846	92,698	11.74%	5.67%	1.28%	7.41%	1.44%	5.12%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	346
Certificate of Non Compliance	1
Parts Cost	185
Hardship Extensions	1
Exempt Vehicle	43
Exempted by Directive	6
Parts Exemption	6
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>588</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,030
Stations Locked-Out at Least Once	449
Stations Conducted at Least One Test	7,133

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,037	6,013
EA	Gas Endorsement	8	0
EB	Both Endorsement	41	0
EB	Gas Endorsement	463	0
GU	Both Endorsement	20	0

**14. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	426,351	47.31	67,884	48.34	494,235	47.45
Test and Repair	127,444	47.55	75,340	47.01	202,784	47.35
Test and Repair Dealer	36	63.86	4,396	52.57	4,432	52.66
Referee	150	30.00	52	30.00	202	30.00
Gold Shield in Enhanced Area	41,670	46.33	7,488	47.52	49,158	46.51
Gold Shield in Basic Area	430	62.24	8,898	39.90	9,328	40.93
Gold Shield in COO Area	1,240	55.84	4,199	52.36	5,439	53.15

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	4,055	22.82	<b>14,942</b>	<b>268.51</b>
	\$51-150	2,964	101.06		
	\$151-250	2,331	200.78		
	\$251-450	2,958	341.14		
	Over \$450	2,634	813.58		
CAP Repairs	\$1-50	73	24.49	<b>2,664</b>	<b>423.94</b>
	\$51-150	138	108.33		
	\$151-250	181	207.07		
	\$251-450	867	361.45		
	Over \$450	1,405	542.20		
Total Repairs	\$1-50	3,060	23.24	<b>15,680</b>	<b>327.90</b>
	\$51-150	2,760	102.17		
	\$151-250	2,261	201.73		
	\$251-450	3,553	345.48		
	Over \$450	4,046	767.38		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,517	423.94

**17. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	12	4	0	0	0	3	2	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	61	6	1	0	2	4	3	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	84	17	3	0	6	10	10	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	1	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	301	53	4	3	16	27	28	6
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	918	187	15	11	70	96	104	20
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	29,885	6,373	662	395	2,759	3,061	4,066	913
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	74	5	2	37	31	47	4
Acceleration Simulation Mode (ASM)	Enhanced	Referee	84	127	11	43	42	52	78	57
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	87,078	6,742	531	356	3,835	2,425	4,796	707
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	344,952	56,641	6,289	3,103	22,230	30,258	33,613	6,624
Acceleration Simulation Mode (ASM)	No Program	Test Only	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	59	15	0	1	10	8	11	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	51	4	0	0	1	3	2	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,470	645	82	41	273	317	429	80
Acceleration Simulation Mode (ASM)	Partial	Referee	7	3	0	0	1	1	1	1
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	15,377	2,606	257	113	1,001	1,325	1,567	286
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	20	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,269	1,849	229	108	695	979	1,094	243
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	39	8	1	1	5	2	7	2
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,378	234	24	15	120	97	154	38
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	66	10	0	14	47	23	1

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	11	11	2	6	0	3	6	9
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,620	872	89	63	468	361	586	114
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,767	1,601	229	104	743	808	1,031	209
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,699	984	140	55	401	294	660	202
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	148	23	2	0	14	7	16	0
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,189	207	18	16	102	58	164	29
Two Speed Idle (TSI)	Basic	Government Fleet	0	12	5	0	5	6	6	0
Two Speed Idle (TSI)	Basic	Referee	10	17	2	10	1	7	11	12
Two Speed Idle (TSI)	Basic	Test and Repair	41,103	4,127	524	218	1,963	1,219	2,987	568
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,165	126	9	2	73	23	105	8
Two Speed Idle (TSI)	Basic	Test Only	9,037	1,171	141	73	588	356	829	182
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	65	19	3	1	7	7	16	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,718	262	67	13	83	129	155	34
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	86	18	6	1	4	9	12	3
Two Speed Idle (TSI)	Change of Ownership	Referee	2	2	0	2	0	1	0	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,519	186	35	18	85	72	145	38
Two Speed Idle (TSI)	Change of Ownership	Test Only	911	176	42	14	53	80	114	27
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	484	57	6	3	18	18	42	9
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	684	70	8	4	31	23	46	6
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,664	446	60	23	274	97	349	62
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	18	1	0	11	6	12	0
Two Speed Idle (TSI)	Enhanced	Referee	20	12	0	7	6	2	8	7
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,241	1,000	98	38	688	188	820	92
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	361	17	1	0	13	2	14	2
Two Speed Idle (TSI)	Enhanced	Test Only	48,440	3,686	370	174	2,495	794	2,900	368
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	52	5	0	1	4	1	4	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	50	4	1	0	1	2	2	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	333	41	5	2	30	12	34	4

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Referee	0	1	0	0	1	1	1	0
Two Speed Idle (TSI)	Partial	Test and Repair	2,311	179	26	12	104	57	129	20
Two Speed Idle (TSI)	Partial	Test Only	1,295	113	14	5	77	22	92	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	359	52	5	8	21	12	39	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,051	106	22	7	46	43	82	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	358	33	9	0	20	14	27	0
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	3	0	4	3	5	0
Two Speed Idle (TSI)	Unknown Program	Referee	6	5	1	3	1	2	3	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,721	357	41	29	219	77	297	54
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	517	12	2	0	10	2	11	1
Two Speed Idle (TSI)	Unknown Program	Test Only	3,441	250	28	20	159	53	198	35
UnKnown TestType	Basic	Gold Shield in Basic Area	269	19	0	3	16	23	16	6
UnKnown TestType	Basic	Gold Shield in Enhanced Area	67	4	0	1	2	5	2	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Basic	Referee	3	5	0	3	2	4	2	3
UnKnown TestType	Basic	Test and Repair	1,851	96	0	10	68	136	68	31
UnKnown TestType	Basic	Test and Repair Dealer	316	6	0	3	2	11	2	4
UnKnown TestType	Basic	Test Only	342	16	0	3	11	16	11	6
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	3	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	71	6	0	0	4	6	4	2
UnKnown TestType	Change of Ownership	Referee	0	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	Test and Repair	58	4	0	1	3	4	3	1
UnKnown TestType	Change of Ownership	Test Only	33	2	0	0	1	2	1	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	22	2	0	0	1	3	1	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	62	4	0	2	3	10	3	2
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	763	51	0	9	41	87	41	16
UnKnown TestType	Enhanced	Government Fleet	0	4	0	0	4	73	4	0
UnKnown TestType	Enhanced	Referee	24	3	0	3	2	3	2	3
UnKnown TestType	Enhanced	Test and Repair	2,870	120	0	20	93	196	93	33

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UnKnown TestType	Enhanced	Test and Repair Dealer	25	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Test Only	5,319	303	0	35	223	344	223	88
UnKnown TestType	Partial	Gold Shield in COO Area	4	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	142	5	0	0	4	6	4	1
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Partial	Referee	2	2	0	2	0	2	0	2
UnKnown TestType	Partial	Test and Repair	900	33	0	7	20	43	20	13
UnKnown TestType	Partial	Test Only	425	10	0	5	5	16	5	6
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	18	2	0	0	1	2	1	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	57	2	0	0	2	8	2	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	62	4	0	0	2	13	2	2
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	30	0	0
UnKnown TestType	Unknown Program	Referee	25	4	0	3	0	4	0	4
UnKnown TestType	Unknown Program	Test and Repair	375	14	0	6	7	31	7	7
UnKnown TestType	Unknown Program	Test and Repair Dealer	14	2	0	1	1	3	1	1
UnKnown TestType	Unknown Program	Test Only	402	17	0	6	8	43	8	10